

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/573,500
Source: IFWP
Date Processed by STIC: 4/7/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/573,500

CRF Edit Date: 4/7/06
Edited by: Am

_____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

_____ Corrected the SEQ ID NO. Sequence numbers edited were:

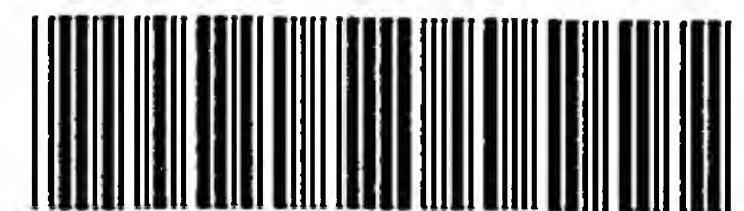
_____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

  Deleted: _____ invalid beginning/end-of-file text ; _____ page numbers

_____ Inserted mandatory headings/numeric identifiers, specifically:

_____ Moved responses to same line as heading/numeric identifier, specifically:

_____ Other:



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/573,500

DATE: 04/07/2006

TIME: 12:43:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\04072006\J573500.raw

3 <110> APPLICANT: Bayer AG, BHC
 5 <120> TITLE OF INVENTION: New acylglycerol acyltransferase-like protein MGAT-X1 and
 uses thereof
 7 <130> FILE REFERENCE: Le A 36 894
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,500
 C--> 9 <141> CURRENT FILING DATE: 2006-03-27
 9 <160> NUMBER OF SEQ ID NOS: 5
 11 <170> SOFTWARE: PatentIn version 3.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 1131
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Homo sapiens
 18 <400> SEQUENCE: 1

19	actgttctga gatctttgcc tccctcaggc tcccgagaat catggctcat tccaa	gcgc	60
20	ctagtcactt ccagagtctg atgcttctgc agtggccttt gagctacattt gccc	atctttt	120
21	ggatcttgca gccattgttc gtctacctgc tgtttacatc cttgtggccg ctacc	aggatgc	180
22	tttactttgc ctgggtgttc ctggacttggaa agaccccaga gcgagggtggc agg	cggttcgg	240
23	cctgggtaag gaactgggtgt gtctggacc acatcaggaa ctatttcccc attac	gatcc	300
24	tgaagacaaa ggacctatca cctgagcaca actacatcat gggggttcac cccca	tggcc	360
25	tcctgacctt tggcgcccttc tgcaacttct gcactgaggc cacaggcttc tcga	aaagacact	420
26	tcccaggcat cactcctcac ttggccacgc tgtcctgggtt ctcaagatc ccctt	gttta	480
27	gggagttacact catggccaaa ggtgtgtgct ctgtgagcca gccagccatc aact	atctgc	540
28	tgagccatgg cactggcaac ctcgtggca ttgttagtggg aggtgtgggt gaggcc	ctgc	600
29	aaagtgtgcc caacaccacc accctcatcc tccagaagcg caaggggttc gtgc	gcacag	660
30	ccctccagca tggggctcat ctggtccccca cttcaacttt tggggaaact gaggt	gttatg	720
31	atcaggtgct gttccataag gatagcagga tgtacaagtt ccagagctgc ttccgc	cgta	780
32	tctttggttt ctactgttgt gtcttctatg gacaaagctt ctgtcaaggc tccact	gggc	840
33	tcctgccata ctccaggcctt attgtcaactg tgggtgggaa gcctctgcca ctg	ccccaaaa	900
34	ttgaaaagcc aagccaggag atggtgacaa aataccatgc actttatatg gat	gtctgc	960
35	acaaactgtt cgaccagcat aagaccact atggctgctc agagacccaa aagct	tttt	1020
36	tcctgtgaat gaaggtactg catgcccagg agcacaggag tgccctgcctt ga	agaagaga	1080
37	ctcatctgcc actaacaaa gacaggcagg agatgaggga gtttatatgt g		1131
40	<210> SEQ ID NO: 2		
41	<211> LENGTH: 328		
42	<212> TYPE: PRT		
43	<213> ORGANISM: Homo sapiens		
45	<400> SEQUENCE: 2		
46	Met Ala His Ser Lys Gln Pro Ser His Phe Gln Ser Leu Met Leu Leu		
47	1 5 10 15		
48	Gln Trp Pro Leu Ser Tyr Leu Ala Ile Phe Trp Ile Leu Gln Pro Leu		
49	20 25 30		
50	Phe Val Tyr Leu Leu Phe Thr Ser Leu Trp Pro Leu Pro Val Leu Tyr		
51	35 40 45		
52	Phe Ala Trp Leu Phe Leu Asp Trp Lys Thr Pro Glu Arg Gly Gly Arg		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,500

DATE: 04/07/2006
TIME: 12:43:06

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\04072006\J573500.raw

53 50 55 60
 54 Arg Ser Ala Trp Val Arg Asn Trp Cys Val Trp Thr His Ile Arg Asp
 55 65 70 75 80
 56 Tyr Phe Pro Ile Thr Ile Leu Lys Thr Lys Asp Leu Ser Pro Glu His
 57 85 90 95
 58 Asn Tyr Leu Met Gly Val His Pro His Gly Leu Leu Thr Phe Gly Ala
 59 100 105 110
 60 Phe Cys Asn Phe Cys Thr Glu Ala Thr Gly Phe Ser Lys Thr Phe Pro
 61 115 120 125
 62 Gly Ile Thr Pro His Leu Ala Thr Leu Ser Trp Phe Phe Lys Ile Pro
 63 130 135 140
 64 Phe Val Arg Glu Tyr Leu Met Ala Lys Gly Val Cys Ser Val Ser Gln
 65 145 150 155 160
 66 Pro Ala Ile Asn Tyr Leu Leu Ser His Gly Thr Gly Asn Leu Val Gly
 67 165 170 175
 68 Ile Val Val Gly Gly Val Gly Glu Ala Leu Gln Ser Val Pro Asn Thr
 69 180 185 190
 70 Thr Thr Leu Ile Leu Gln Lys Arg Lys Gly Phe Val Arg Thr Ala Leu
 71 195 200 205
 72 Gln His Gly Ala His Leu Val Pro Thr Phe Thr Phe Gly Glu Thr Glu
 73 210 215 220
 74 Val Tyr Asp Gln Val Leu Phe His Lys Asp Ser Arg Met Tyr Lys Phe
 75 225 230 235 240
 76 Gln Ser Cys Phe Arg Arg Ile Phe Gly Phe Tyr Cys Cys Val Phe Tyr
 77 245 250 255
 78 Gly Gln Ser Phe Cys Gln Gly Ser Thr Gly Leu Leu Pro Tyr Ser Arg
 79 260 265 270
 80 Pro Ile Val Thr Val Val Gly Glu Pro Leu Pro Leu Pro Gln Ile Glu
 81 275 280 285
 82 Lys Pro Ser Gln Glu Met Val Asp Lys Tyr His Ala Leu Tyr Met Asp
 83 290 295 300
 84 Ala Leu His Lys Leu Phe Asp Gln His Lys Thr His Tyr Gly Cys Ser
 85 305 310 315 320
 86 Glu Thr Gln Lys Leu Phe Phe Leu
 87 325
 89 <210> SEQ ID NO: 3
 90 <211> LENGTH: 20
 91 <212> TYPE: DNA
 92 <213> ORGANISM: artificial sequence
 94 <220> FEATURE:
 95 <223> OTHER INFORMATION: forward primer
 97 <400> SEQUENCE: 3
 98 ccaggcctat tgtcactgtg
 100 <210> SEQ ID NO: 4
 101 <211> LENGTH: 20
 102 <212> TYPE: DNA
 103 <213> ORGANISM: artificial sequence
 105 <220> FEATURE:
 106 <223> OTHER INFORMATION: reverse primer

20

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,500

DATE: 04/07/2006
TIME: 12:43:06

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\04072006\J573500.raw

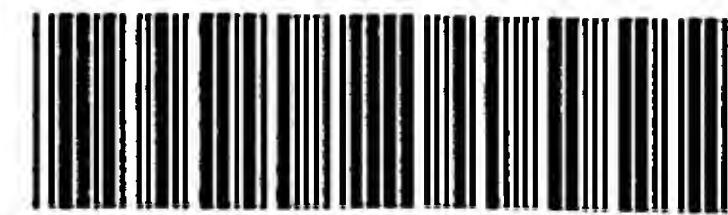
108 <400> SEQUENCE: 4
109 ctggcttggc ttttcaattt 20
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 21
113 <212> TYPE: DNA
114 <213> ORGANISM: artificial sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: probe
119 <400> SEQUENCE: 5
120 ttggggagcc tctgccactg c 21

VERIFICATION SUMMARY DATE: 04/07/2006
PATENT APPLICATION: US/10/573,500 TIME: 12:43:07

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\04072006\J573500.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/573,500

DATE: 04/06/2006

TIME: 10:43:41

Input Set : A:\SQL 36894.txt

Output Set: N:\CRF4\04062006\J573500.raw

3 <110> APPLICANT: Bayer AG, BHC
 5 <120> TITLE OF INVENTION: New acylglycerol acyltransferase-like protein MGAT-X1 and
 uses thereof
 7 <130> FILE REFERENCE: Le A 36 894
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,500
 C--> 9 <141> CURRENT FILING DATE: 2006-03-27
 9 <160> NUMBER OF SEQ ID NOS: 5
 11 <170> SOFTWARE: PatentIn version 3.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 1131
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Homo sapiens
 18 <400> SEQUENCE: 1
 19 actgttctga gatcttgcc tccctcaggg tcccgagaat catggctcat tccaaaggc 60
 20 ctagtcactt ccagagtctg atgcttctgc agtggccttt gagctacctt gccatcttt 120
 21 ggatcttgca gccattgttc gtctacctgc tgtttacatc ctgtggccg ctaccagtgc 180
 22 tttactttgc ctgggtgttc ctggactgga agaccccaga gcgagggtggc aggcgttcgg 240
 23 cctgggtaag gaactgggt gtctggaccc acatcaggga ctatttcccc attacgatcc 300
 24 tgaagacaaa ggacctatca cctgagcaca actacctcat gggggttcac ccccatggcc 360
 25 tcctgacctt tggcgcccttc tgcaacttct gcactgaggc cacaggcttc tcgaagacct 420
 26 tcccaggcat cactcctcac ttggccacgc tgtcctgggtt cttcaagatc ccctttgtta 480
 27 gggagtacct catggccaaa ggtgtgtgct ctgtgagcca gccagccatc aactatctgc 540
 28 tgagccatgg cactggcaac ctcgtggca ttgttagtggg aggtgtgggt gaggccctgc 600
 29 aaagtgtgcc caacaccacc accctcatcc tccagaagcg caaggggttc gtgcgcacag 660
 30 ccctccagca tggggctcat ctggtccccca cttcaactt tggggaaact gaggtgtatg 720
 31 atcaggtgct gttccataag gatagcagga tgtacaagtt ccagagctgc ttccggcgta 780
 32 tctttggttt ctactgttgt gtcttctatg gacaaagctt ctgtcaaggc tccactggc 840
 33 tcctgccata ctccaggccct attgtcactg tggttggga gcctctgcca ctgccccaaa 900
 34 ttgaaaagcc aagccaggag atggtgacca aataccatgc actttatatg gatgctctgc 960
 35 acaaactgtt cgaccagcat aagaccact atggctgctc agagacccaa aagctgttt 1020
 36 tcctgtgaat gaaggtactg catgcccagg agcacaggag tgcctgcctt gaagaagaga 1080
 37 ctcatctgcc actaacccaaa gacaggcagg agatgaggga gtttatatgt g 1131
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 328
 42 <212> TYPE: PRT
 43 <213> ORGANISM: Homo sapiens
 45 <400> SEQUENCE: 2
 46 Met Ala His Ser Lys Gln Pro Ser His Phe Gln Ser Leu Met Leu Leu
 47 1 5 10 15
 48 Gln Trp Pro Leu Ser Tyr Leu Ala Ile Phe Trp Ile Leu Gln Pro Leu
 49 20 25 30
 50 Phe Val Tyr Leu Leu Phe Thr Ser Leu Trp Pro Leu Pro Val Leu Tyr
 51 35 40 45
 52 Phe Ala Trp Leu Phe Leu Asp Trp Lys Thr Pro Glu Arg Gly Arg

P,3

**Does Not Comply
Corrected Diskette Needed**

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,500

DATE: 04/06/2006
TIME: 10:43:41

Input Set : A:\SQL 36894.txt
Output Set: N:\CRF4\04062006\J573500.raw

```

53      50          55          60
54 Arg Ser Ala Trp Val Arg Asn Trp Cys Val Trp Thr His Ile Arg Asp
55 65          70          75          80
56 Tyr Phe Pro Ile Thr Ile Leu Lys Thr Lys Asp Leu Ser Pro Glu His
57          85          90          95
58 Asn Tyr Leu Met Gly Val His Pro His Gly Leu Leu Thr Phe Gly Ala
59          100         105         110
60 Phe Cys Asn Phe Cys Thr Glu Ala Thr Gly Phe Ser Lys Thr Phe Pro
61          115         120         125
62 Gly Ile Thr Pro His Leu Ala Thr Leu Ser Trp Phe Phe Lys Ile Pro
63          130         135         140
64 Phe Val Arg Glu Tyr Leu Met Ala Lys Gly Val Cys Ser Val Ser Gln
65 145         150         155         160
66 Pro Ala Ile Asn Tyr Leu Leu Ser His Gly Thr Gly Asn Leu Val Gly
67          165         170         175
68 Ile Val Val Gly Gly Val Gly Glu Ala Leu Gln Ser Val Pro Asn Thr
69          180         185         190
70 Thr Thr Leu Ile Leu Gln Lys Arg Lys Gly Phe Val Arg Thr Ala Leu
71          195         200         205
72 Gln His Gly Ala His Leu Val Pro Thr Phe Thr Phe Gly Glu Thr Glu
73          210         215         220
74 Val Tyr Asp Gln Val Leu Phe His Lys Asp Ser Arg Met Tyr Lys Phe
75 225         230         235         240
76 Gln Ser Cys Phe Arg Arg Ile Phe Gly Phe Tyr Cys Cys Val Phe Tyr
77          245         250         255
78 Gly Gln Ser Phe Cys Gln Gly Ser Thr Gly Leu Leu Pro Tyr Ser Arg
79          260         265         270
80 Pro Ile Val Thr Val Val Gly Glu Pro Leu Pro Leu Pro Gln Ile Glu
81          275         280         285
82 Lys Pro Ser Gln Glu Met Val Asp Lys Tyr His Ala Leu Tyr Met Asp
83          290         295         300
84 Ala Leu His Lys Leu Phe Asp Gln His Lys Thr His Tyr Gly Cys Ser
85 305         310         315         320
86 Glu Thr Gln Lys Leu Phe Phe Leu
87          325
89 <210> SEQ ID NO: 3
90 <211> LENGTH: 20
91 <212> TYPE: DNA
92 <213> ORGANISM: artificial sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: forward primer
97 <400> SEQUENCE: 3
98 ccaggcctat tgtcaactgtg
100 <210> SEQ ID NO: 4
101 <211> LENGTH: 20
102 <212> TYPE: DNA
103 <213> ORGANISM: artificial sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: reverse primer

```

20

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,500

DATE: 04/06/2006
TIME: 10:43:41

Input Set : A:\SQL 36894.txt
Output Set: N:\CRF4\04062006\J573500.raw

108 <400> SEQUENCE: 4
109 ctggcttggc ttttcaattt 20
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 21
113 <212> TYPE: DNA
114 <213> ORGANISM: artificial sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: probe
119 <400> SEQUENCE: 5
120 ttggggagcc tctgccactg c 21
W--> 122 Le A 36 894-Foreign Countries
W--> 125 - 3 -
W--> 129 Le A 36 894-Foreign Countries
W--> 132 - 1 -

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/573,500

DATE: 04/06/2006
TIME: 10:43:42

Input Set : A:\SQL 36894.txt
Output Set: N:\CRF4\04062006\J573500.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:122 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:125 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:129 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:132 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5